

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S3	18377380	2001-509832 A	US-PGPUB; USPAT; JPO	OR	ON	2009/05/07 16:17
S65	17990803	US 2004-822775	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2009/05/11 11:14
S147	140568	naphthalene diimide	US-PGPUB; USPAT	OR	ON	2011/06/14 12:50
S171	137065	naphthalene diimide and (428/690 428/917 428/411.1 428/336 313/502 313/503 313/504 313/505 313/506 313/507 313/508 313/509 257/40 257/88 257/104 257/ E51 532/1).cds.	US-PGPUB; USPAT	OR	ON	2011/06/14 12:57
S14	117291	naphthalene diimide	US-PGPUB; USPAT	OR	ON	2009/05/08 10:49
S15	114255	naphthalene diimide and electroluminescent	US-PGPUB; USPAT	OR	ON	2009/05/08 10:50
S169	66735	((@pd<"20031222" @ad<"20031224") and (fused nitrogen-containing heteroarom\$) same (phenyl anthracen\$ fused) same (link\$ bond\$ chain connect \$4)	US-PGPUB; USPAT	OR	ON	2011/06/14 12:55
S168	63110	((@pd<"20031222" @ad<"20031224") and (fused nitrogen-containing heteroarom\$) same (phenyl anthracen\$ fused) same (link\$ bond\$ chain connect \$2)	US-PGPUB; USPAT	OR	ON	2011/06/14 12:55
S166	60190	((@pd<"20031222" @ad<"20031224") and (fused nitrogen-containing heteroarom\$) and (phenyl anthracen\$ fused) same (link\$ bond\$)	US-PGPUB; USPAT	OR	ON	2011/06/14 12:54
S167	55203	((@pd<"20031222" @ad<"20031224") and (fused nitrogen-containing heteroarom\$) same (phenyl anthracen\$ fused) same (link\$ bond\$ chain)	US-PGPUB; USPAT	OR	ON	2011/06/14 12:55

S165	18777	((@pd<"20031222" @ad<"20031224") and (oxadiazolo\$ hetero nitrogen- containing) and (phenyl anthracen\$ fused) same (link\$ bond\$)	US-PGPUB; USPAT	OR	ON	2011/06/14 12:54
S95	12241	(428/690 428/917 313/504 313/506 257/40 "E51/049" "E51/05").ocls.	US-PGPUB; USPAT; DERWENT	OR	ON	2009/05/18 08:57
S146	4705	electroluminescent and "single layer" and ("electron- transport" or "electron transport" or "electron- transporting" or "electron transporting")	US-PGPUB; USPAT	OR	ON	2011/06/14 12:50
S152	4063	electroluminescent and naphthalene	US-PGPUB; USPAT	OR	ON	2011/06/14 12:50
S156	4063	electroluminescent and naphthalene	US-PGPUB; USPAT	OR	ON	2011/06/14 12:51
S160	4063	electroluminescent and naphthalene	US-PGPUB; USPAT	OR	ON	2011/06/14 12:51
S10	3330	electroluminescent and "single layer" and ("electron- transport" or "electron transport" or "electron- transporting" or "electron transporting")	US-PGPUB; USPAT	OR	ON	2009/05/08 10:48
S79	3161	"electron injecting" same "electron transporting"	US-PGPUB; USPAT; DERWENT	OR	ON	2009/05/11 15:38
S29	2978	electroluminescent and naphthalene	US-PGPUB; USPAT	OR	ON	2009/05/08 12:40
S38	2978	electroluminescent and naphthalene	US-PGPUB; USPAT	OR	ON	2009/05/08 12:57
S170	2771	electroluminescent and "single layer" and ("electron- transport" or "electron transport" or "electron- transporting" or "electron transporting") and (428/690 428/917 428/411.1 428/336 313/502 313/503 313/504 313/505 313/506 313/507 313/508 313/509 257/40 257/88 257/104 257/E51 532/1).ocls.	US-PGPUB; USPAT	OR	ON	2011/06/14 12:57
S113	2723	electroluminescent and ((light with emi\$10) same (connect\$5 or link\$5 or spacer) same (charge or electron or hole))	US-PGPUB; USPAT	OR	ON	2009/05/18 17:28

S174	2287	electroluminescent and naphthalene and (428/690 428/917 428/411.1 428/336 313/502 313/503 313/504 313/505 313/506 313/507 313/508 313/509 257/40 257/88 257/104 257/E51 532/1).ocls.	US-PGPUB; USPAT	OR	ON	2011/06/14 12:57
S176	2287	electroluminescent and naphthalene and (428/690 428/917 428/411.1 428/336 313/502 313/503 313/504 313/505 313/506 313/507 313/508 313/509 257/40 257/88 257/104 257/E51 532/1).ocls.	US-PGPUB; USPAT	OR	ON	2011/06/14 12:58
S96	1982	((428/690 428/917 313/504 313/506 257/40 "E51/049" "E51/05").ocls. and ((light with (emit\$5 or emiss\$5)) or fluores\$5 or lumines\$5 or electrolumines\$5) same (link \$5 or bond\$5 or connect\$5) same ((charge or hole or electron) with (transport\$5 or inject\$5))	US-PGPUB; USPAT; DERWENT	OR	ON	2009/05/18 09:05
S80	1706	"electron injecting" same "electron transporting" and electroluminescent	US-PGPUB; USPAT; DERWENT	OR	ON	2009/05/11 15:38
S185	1583	((@pd<"20031222" @ad<"20031224") and (428/690 428/917 428/411.1 428/336 313/502 313/503 313/504 313/505 313/506 313/507 313/508 313/509 257/40 257/88 257/104 257/E51 532/1).ocls. and (oxadiazol\$)	US-PGPUB; USPAT	OR	ON	2011/06/14 13:00
S186	1044	((@pd<"20031222" @ad<"20031224") and (428/690 428/917 428/411.1 428/336 313/502 313/503 313/504 313/505 313/506 313/507 313/508 313/509 257/40 257/88 257/104 257/E51 532/1).ocls. and (oxadiazol\$) with derivative \$2	US-PGPUB; USPAT	OR	ON	2011/06/14 13:01

S187	948	((@pd<"20031222" @ad<"20031224") and (428/690 428/917 428/411.1 428/336 313/502 313/503 313/504 313/505 313/506 313/507 313/508 313/509 257/40 257/88 257/104 257/ E51 532/1).ocls. and ((oxadiazol\$) with derivative \$2) same (charge electron hole light)	US-PGPUB; USPAT	OR	ON	2011/06/14 13:01
S188	850	((@pd<"20031222" @ad<"20031224") and (428/690 428/917 428/411.1 428/336 313/502 313/503 313/504 313/505 313/506 313/507 313/508 313/509 257/40 257/88 257/104 257/ E51 532/1).ocls. and ((oxadiazol\$) with derivative \$2) same (charge electron hole light) and electroluminescence	US-PGPUB; USPAT	OR	ON	2011/06/14 13:01
S86	733	electroluminescent and ("electron transporting" and spacer)	US-PGPUB; USPAT; DERWENT	OR	ON	2009/05/11 17:20
S153	596	electroluminescent and (naphthalene same ("electron transport" or "electron-transport" or "electron transporting" or "electron-transporting"))	US-PGPUB; USPAT	OR	ON	2011/06/14 12:51
S157	596	electroluminescent and (naphthalene same ("electron transport" or "electron-transport" or "electron transporting" or "electron-transporting"))	US-PGPUB; USPAT	OR	ON	2011/06/14 12:51
S179	588	((@pd<"20031222" @ad<"20031224") and (fused nitrogen-containing heteroarom\$) and (phenyl anthracene\$ fused) same (link\$ bond\$) and (428/690 428/917 428/411.1 428/336 313/502 313/503 313/504 313/505 313/506 313/507 313/508 313/509 257/40 257/88 257/104 257/E51 532/1).ocls.	US-PGPUB; USPAT	OR	ON	2011/06/14 12:58

S180	521	((@pd< "20031222" @ad< "20031224") and (fused nitrogen-containing heteroarom\$) same (phenyl anthracen\$ fused) same (link\$ bond\$ chain connect \$4) and (428/690 428/917 428/411.1 428/336 313/502 313/503 313/504 313/505 313/506 313/507 313/508 313/509 257/40 257/88 257/104 257/E51 532/1).ocls.	US-PGPUB; USPAT	OR	ON	2011/06/14 12:58
S30	422	electroluminescent and (naphthalene same ("electron transport" or "electron-transport" or "electron transporting" or "electron-transporting"))	US-PGPUB; USPAT	OR	ON	2009/05/08 12:40
S175	411	electroluminescent and (naphthalene same ("electron transport" or "electron-transport" or "electron transporting" or "electron-transporting")) and (428/690 428/917 428/411.1 428/336 313/502 313/503 313/504 313/505 313/506 313/507 313/508 313/509 257/40 257/88 257/104 257/ E51 532/1).ocls.	US-PGPUB; USPAT	OR	ON	2011/06/14 12:57
S162	357	((@pd< "20031222" @ad< "20031224") and oxadiazolo\$	US-PGPUB; USPAT	OR	ON	2011/06/14 12:53
S178	337	((@pd< "20031222" @ad< "20031224") and (oxadiazolo\$ hetero nitrogen- containing) and (phenyl anthracen\$ fused) same (link\$ bond\$) and (428/690 428/917 428/411.1 428/336 313/502 313/503 313/504 313/505 313/506 313/507 313/508 313/509 257/40 257/88 257/104 257/E51 532/1).ocls.	US-PGPUB; USPAT	OR	ON	2011/06/14 12:58
S87	313	electroluminescent and "single-layer" and spacer	US-PGPUB; USPAT; DERWENT	OR	ON	2009/05/11 17:22
S128	248	mataga.in.	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2009/05/19 15:27
S140	247	((@pd< "20031222" @ad< "20031224") and electroluminescent and host with anthracene	US-PGPUB; USPAT	OR	OFF	2010/07/08 10:51

S98	189	(428/690 428/917 313/504 313/506 257/40 "E51/049" "E51/05").ocls. and ((light with (emit\$5 or emiss\$5)) or fluores\$5 or lumines\$5 or electrolumines\$5) same (link \$5 or bond\$5 or connect\$5) same ((charge or hole or electron) with (transport\$5 or inject\$5) same alk\$7)	US-PGPUB; USPAT; DERWENT	OR	ON	2009/05/18 09:43
S149	171	("electron-transport" or "electron transport" or "electron-transporting" or "electron transporting") same diimide	US-PGPUB; USPAT	OR	ON	2011/06/14 12:50
S92	133	electroluminescent and ((host or fluorescent or "light-emitting" or "light emitting" or dye) same (spacer or link or linked) same ("charge-transporting" or "charge transporting" or "charge-injecting" or "charge injecting" or "electron-transporting" or "electron transporting" or "electron-injecting" or "electron injecting" or "hole-transporting" or "hole transporting" or "hole-injecting" or "hole injecting"))	US-PGPUB; USPAT; DERWENT	OR	ON	2009/05/14 15:44
S18	129	("electron-transport" or "electron transport" or "electron-transporting" or "electron transporting") same diimide	US-PGPUB; USPAT	OR	ON	2009/05/08 12:18
S115	121	electroluminescent and ((light with emi\$10) same (connect\$5 or link\$5 or spacer) same (charge or electron or hole) same (alkyl \$5 or flexible))	US-PGPUB; USPAT	OR	ON	2009/05/18 17:28
S164	89	((@pd<"20031222" @ad<"20031224") and oxadiazolo\$ and (phenyl anthracen\$ fused) same (link\$ bond\$))	US-PGPUB; USPAT	OR	ON	2011/06/14 12:53
S39	60	electroluminescent and (naphthalene same diimide)	US-PGPUB; USPAT	OR	ON	2009/05/08 12:57
S154	49	naphthalidiimide	US-PGPUB; USPAT	OR	ON	2011/06/14 12:51
S158	49	naphthalidiimide	US-PGPUB; USPAT	OR	ON	2011/06/14 12:51

S114	47	electroluminescent and ((light with emi\$10) same (connect\$5 or link\$5 or spacer) same (charge or electron or hole) same alkyl \$5)	US-PGPUB; USPAT	OR	ON	2009/05/18 17:28
S34	43	naphthaldiimide	US-PGPUB; USPAT	OR	ON	2009/05/08 12:42
S172	38	("electron-transport" or "electron transport" or "electron-transporting" or "electron transporting") same diimide and (428/690 428/917 428/411.1 428/336 313/502 313/503 313/504 313/505 313/506 313/507 313/508 313/509 257/40 257/88 257/104 257/E51 532/1).ccls.	US-PGPUB; USPAT	OR	ON	2011/06/14 12:57
S100	37	electroluminescent and (polymer same alkyl\$5 same spacer\$5 same link\$5)	US-PGPUB; USPAT; DERWENT	OR	ON	2009/05/18 11:20
S110	37	electroluminescent and (host same guest same spacer\$5)	US-PGPUB; USPAT	OR	ON	2009/05/18 17:23
S111	37	electroluminescent and (host same guest same spacer\$10)	US-PGPUB; USPAT	OR	ON	2009/05/18 17:23
S97	36	((428/690 428/917 313/504 313/506 257/40 "E51/049" "E51/05").ccls. and ((light with (emit\$5 or emiss\$5)) or fluores\$5 or lumines\$5 or electrolumines\$5) same (link \$5 or bond\$5 or connect\$5) same ((charge or hole or electron) with (transport\$5 or inject\$5) same alkylene)	US-PGPUB; USPAT; DERWENT	OR	ON	2009/05/18 09:34
S109	33	electroluminescent and (host same guest same link\$5)	US-PGPUB; USPAT	OR	ON	2009/05/18 17:10
S189	33	((@pd<"20031222" @ad<"20031224") and (428/690 428/917 428/411.1 428/336 313/502 313/503 313/504 313/505 313/506 313/507 313/508 313/509 257/40 257/88 257/104 257/E51 532/1).ccls. and ((oxadiazol\$) with derivative \$2) same (charge electron hole light) and electroluminescence and (link\$ same anthracene \$2)	US-PGPUB; USPAT	OR	ON	2011/06/14 13:01

S190	33	((@pd<"20031222" @ad<"20031224") and (428/690 428/917 428/411.1 428/336 313/502 313/503 313/504 313/505 313/506 313/507 313/508 313/509 257/40 257/88 257/104 257/ E51 532/1).ocls. and ((oxadiazol\$) with derivative \$2) same (charge electron hole light) and electrolumine \$ and (link\$ same anthracen \$4)	US-PGPUB; USPAT	OR	ON	2011/06/14 13:01
S150	26	("electron-transport" or "electron transport" or "electron-transporting" or "electron transporting") same diimide and electroluminescent	US-PGPUB; USPAT	OR	ON	2011/06/14 12:50
S155	26	naphthalenediimide	US-PGPUB; USPAT	OR	ON	2011/06/14 12:51
S159	26	naphthalenediimide	US-PGPUB; USPAT	OR	ON	2011/06/14 12:51
S192	24	((@pd<"20031222" @ad<"20031224") and (428/690 428/917 428/411.1 428/336 313/502 313/503 313/504 313/505 313/506 313/507 313/508 313/509 257/40 257/88 257/104 257/ E51 532/1).ocls. and ((oxadiazol\$) with derivative \$2) same (charge electron hole light) and electrolumine \$ and (link\$ same naphthalen \$)	US-PGPUB; USPAT	OR	ON	2011/06/14 13:02
S103	23	electroluminescent and polymer and (alkyl\$ same spacer same charge)	US-PGPUB; USPAT	OR	ON	2009/05/18 11:39
S129	22	mataga.in. and electroluminescent	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2009/05/19 15:27
S142	22	((@pd<"20031222" @ad<"20031224") and electroluminescent and (anthracene with host) and (not derivatives)	US-PGPUB; USPAT	OR	OFF	2010/07/08 10:54
S19	17	("electron-transport" or "electron transport" or "electron-transporting" or "electron transporting") same diimide and electroluminescent	US-PGPUB; USPAT	OR	ON	2009/05/08 12:18



S24	17	electroluminescent and ((("electron-transport" or "electron transport" or "electron-transporting" or "electron transporting") same diimide)	US-PGPUB; USPAT	OR	ON	2009/05/08 12:25
S112	17	electroluminescent and (host same guest same spac\$10 same (light or fluorescent))	US-PGPUB; USPAT	OR	ON	2009/05/18 17:24
S35	16	naphthalenediimide	US-PGPUB; USPAT	OR	ON	2009/05/08 12:43
S106	15	electroluminescent and polymer and (spacer same alky\$5 same ((charge or electron or hole) with (inject \$5 or transport\$5)))	US-PGPUB; USPAT; DERWENT	OR	ON	2009/05/18 15:24
S105	13	electroluminescent and (polymer same alky\$5 same spac\$5 same link\$5) and (257/40 E51/049 E51/05 313/502 313/503 313/504 313/505 313/506 313/507 313/508 313/509 313/510 313/512 313/513 428/690 428/917).ccls.	US-PGPUB; USPAT; DERWENT	OR	ON	2009/05/18 15:22
S104	9	electroluminescent and ((light with (emit\$5 or emiss \$5) same ((charge or hole or electron) with (transport\$5 or inject\$5)) same spacer same link\$5)	US-PGPUB; USPAT; DERWENT	OR	ON	2009/05/18 13:53
S130	9	mataga.in. and "2001".ay.	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2009/05/19 15:30
S151	9	electroluminescent and ((("electron-transport" or "electron transport" or "electron-transporting" or "electron transporting") same naphthalene)	US-PGPUB; USPAT	OR	ON	2011/06/14 12:50
S50	8	"6649283"	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2009/05/08 14:01
S21	6	electroluminescent and ((("electron-transport" or "electron transport" or "electron-transporting" or "electron transporting") same naphthalene)	US-PGPUB; USPAT	OR	ON	2009/05/08 12:21
S53	6	"11167990"	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2009/05/08 15:05

S118	6	("6103446" "6146809" "20010016269" "20010004107" "20030091862" "6114463"). pn.	US-PGPUB; USPAT	OR	ON	2009/05/19 08:42
S68	5	2003-427268	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2009/05/11 11:16
S59	4	"2000282024"	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2009/05/11 09:19
S62	4	"2004105187"	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2009/05/11 11:13
S88	4	"3533798".pn.	US-PGPUB; USPAT; DERWENT	OR	ON	2009/05/11 17:44
S5	3	"2003217856"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/05/07 16:30
S69	3	"7015002".pn.	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2009/05/11 11:19
S75	3	"2006030788"	US-PGPUB; USPAT; DERWENT	OR	ON	2009/05/11 15:22
S76	3	"2005092901".pn.	US-PGPUB; USPAT; DERWENT	OR	ON	2009/05/11 15:23
S77	3	"2005061657".pn.	US-PGPUB; USPAT; DERWENT	OR	ON	2009/05/11 15:23
S83	3	"2005061657"	US-PGPUB; USPAT; DERWENT	OR	ON	2009/05/11 17:17
S119	3	"2003217856"	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2009/05/19 09:02
S132	3	"2003217856".pn.	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2009/05/19 16:07
S134	3	"2003217856".pn.	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2009/05/19 16:32
S148	3	"2003217856"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/06/14 12:50
S7	2	"2003217856"	US-PGPUB; USPAT; DERWENT	OR	ON	2009/05/08 09:25

S48	2	"20060194075"	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2009/05/08 13:58
S49	2	"2001210468"	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2009/05/08 14:00
S51	2	"6649283".pn.	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2009/05/08 14:01
S54	2	"5059863".pn.	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2009/05/08 15:53
S58	2	2001-353764	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2009/05/11 08:36
S60	2	"2003151778"	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2009/05/11 10:40
S70	2	"20050181380".pn.	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2009/05/11 11:21
S71	2	"20070092759".pn.	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2009/05/11 13:51
S73	2	"20070160905".pn.	US-PGPUB; USPAT; DERWENT	OR	ON	2009/05/11 15:20
S74	2	"20060251922"	US-PGPUB; USPAT; DERWENT	OR	ON	2009/05/11 15:21
S78	2	"6600175".pn.	US-PGPUB; USPAT; DERWENT	OR	ON	2009/05/11 15:24
S82	2	"20070077453"	US-PGPUB; USPAT; DERWENT	OR	ON	2009/05/11 16:41
S90	2	"20040219387"	US-PGPUB; USPAT; DERWENT	OR	ON	2009/05/14 15:26
S91	2	"20060078761"	US-PGPUB; USPAT; DERWENT	OR	ON	2009/05/14 15:37
S99	2	"20040260047"	US-PGPUB; USPAT	OR	ON	2009/05/18 10:18
S108	2	"20040219387".pn.	US-PGPUB; USPAT; DERWENT	OR	ON	2009/05/18 15:37
S116	2	("20030165715" "6436558").pn.	US-PGPUB; USPAT	OR	ON	2009/05/19 08:27
S123	2	"2000282024".pn.	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2009/05/19 14:41

S124	2	"2003157977".pn.	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2009/05/19 15:05
S125	2	"2003151776".pn.	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2009/05/19 15:22
S126	2	"2001327275".pn.	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2009/05/19 15:26
S127	2	"2001327275".pn.	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2009/05/19 15:26
S131	2	"2003133072".pn.	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2009/05/19 15:32
S136	2	"2003151777".pn.	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2009/05/19 17:37
S137	2	"2003157977".pn.	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2009/05/19 17:39
S4	1	"2001509832"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/05/07 16:18
S6	1	"20070092753"	US-PGPUB; USPAT; JPO	OR	ON	2009/05/07 17:27
S13	1	naphthalenediimide	US-PGPUB; USPAT	OR	ON	2009/05/08 10:49
S41	1	electroluminescent and (naphthalene same diimide same transport)	US-PGPUB; USPAT	OR	ON	2009/05/08 13:01
S47	1	"2001509832"	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2009/05/08 13:31
S62	1	JP11167990	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2009/05/08 15:04
S61	1	"10584089"	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2009/05/11 11:08
S63	1	2004-822775	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2009/05/11 11:14
S67	1	2004-822775	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2009/05/11 11:14
S101	1	"20060078761"	US-PGPUB; USPAT	OR	ON	2009/05/18 11:36

S102	1	electroluminescent and (hetero\$ same spac\$ same (charge with (tran\$ or injec \$5)) same link\$5)	US-PGPUB; USPAT	OR	ON	2009/05/18 11:38
S121	1	"20070116981".pn.	US-PGPUB; USPAT	OR	ON	2009/05/19 09:46
S122	1	"5059863".pn.	US-PGPUB; USPAT	OR	ON	2009/05/19 14:01
S138	1	"10584313"	US-PGPUB; USPAT	OR	OFF	2009/12/18 20:15
S139	1	"10584313"	US-PGPUB; USPAT	OR	OFF	2010/07/08 10:21
S144	1	"2003151778"	JPO	OR	OFF	2010/07/08 12:51
S145	1	"10584313"	US-PGPUB; USPAT	OR	OFF	2011/03/29 13:43
S181	1	"10584313"	US-PGPUB; USPAT	OR	ON	2011/06/14 12:58
S182	1	"10584313"	US-PGPUB; USPAT; DERWENT	OR	ON	2011/06/14 12:59
S193	1	"10584313"	US-PGPUB; USPAT	OR	ON	2011/06/15 07:48

## EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	8191774	2001-509832 A	USPAT; UPAD	OR	ON	2011/06/15 12:58
L3	84701	naphthalene diimide	USPAT; UPAD	OR	ON	2011/06/15 12:58
L4	82591	naphthalene diimide and electroluminescent	USPAT; UPAD	OR	ON	2011/06/15 12:58
L35	13549	(@pd< "20031222" @ad< "20031224") and (oxadiazolo\$ hetero nitrogen-containing) and (phenyl anthracen\$ fused) same (link\$ bond\$)	USPAT; UPAD	OR	ON	2011/06/15 13:01
L16	7604	(428/690 428/917 313/504 313/506 257/40 "E51/049" "E51/05").ccls.	USPAT; UPAD	OR	ON	2011/06/15 13:00
L2	1945	electroluminescent and "single layer" and ("electron-transport" or "electron transport" or "electron-transporting" or "electron transporting")	USPAT; UPAD	OR	ON	2011/06/15 12:58
L30	1634	electroluminescent and ((light with emi\$10) same (connect\$5 or link\$5 or spacer) same (charge or electron or hole))	USPAT; UPAD	OR	ON	2011/06/15 13:01

L7	1583	electroluminescent and naphthalene	USPAT; UPAD	OR	ON	2011/06/15 12:59
L11	1583	electroluminescent and naphthalene	USPAT; UPAD	OR	ON	2011/06/15 12:59
L13	1555	"electron injecting" same "electron transporting"	USPAT; UPAD	OR	ON	2011/06/15 12:59
L17	1128	(428/690 428/917 313/504 313/506 257/40 "E51/049" "E51/05").ccls. and ((light with (emit\$5 or emiss\$5)) or fluore\$5 or lumines\$5 or electrolumines\$5) same (link\$5 or bond\$5 or connect\$5) same ((charge or hole or electron) with (transport\$5 or inject\$5))	USPAT; UPAD	OR	ON	2011/06/15 13:00
L14	997	"electron injecting" same "electron transporting" and electroluminescent	USPAT; UPAD	OR	ON	2011/06/15 12:59
L36	892	electroluminescent and naphthalene and (428/690 428/917 428/411.1 428/336 313/502 313/503 313/504 313/505 313/506 313/507 313/508 313/509 257/40 257/88 257/104 257/E51 532/1).ccls.	USPAT; UPAD	OR	ON	2011/06/15 13:01
L37	566	((@pd<"20031222" @ad<"20031224") and (428/690 428/917 428/411.1 428/336 313/502 313/503 313/504 313/505 313/506 313/507 313/508 313/509 257/40 257/88 257/104 257/E51 532/1).ccls. and ((oxadiazol\$) with derivative\$2) same (charge electron hole light) and electrolumines\$	USPAT; UPAD	OR	ON	2011/06/15 13:02
L33	301	((@pd<"20031222" @ad<"20031224") and oxadiazolo\$	USPAT; UPAD	OR	ON	2011/06/15 13:01
L8	213	electroluminescent and (naphthalene same ("electron transport" or "electron-transport" or "electron-transporting" or "electron-transporting"))	USPAT; UPAD	OR	ON	2011/06/15 12:59
L19	107	(428/690 428/917 313/504 313/506 257/40 "E51/049" "E51/05").ccls. and ((light with (emit\$5 or emiss\$5)) or fluore\$5 or lumines\$5 or electrolumines\$5) same (link\$5 or bond\$5 or connect\$5) same ((charge or hole or electron) with (transport\$5 or inject\$5) same alk\$7)	USPAT; UPAD	OR	ON	2011/06/15 13:00

L32	79	electroluminescent and ((light with emi\$10) same (connect\$5 or link\$5 or spacer) same (charge or electron or hole) same (alkyl\$5 or flexible))	USPAT; UPAD	OR	ON	2011/06/15 13:01
L15	68	electroluminescent and ((host or fluorescent or "light-emitting" or "light emitting" or dye) same (spacer or link or linked) same ("charge-transporting" or "charge transporting" or "charge-injecting" or "charge injecting" or "electron-transporting" or "electron transporting" or "electron-injecting" or "electron injecting" or "hole-transporting" or "hole transporting" or "hole-injecting" or "hole injecting"))	USPAT; UPAD	OR	ON	2011/06/15 12:59
L34	68	((@pd<"20031222" @ad<"20031224") and oxadiazolo\$ and (phenyl anthracen\$ fused) same (link\$ bonds))	USPAT; UPAD	OR	ON	2011/06/15 13:01
L5	62	("electron-transport" or "electron transport" or "electron- transporting" or "electron transporting") same diimide	USPAT; UPAD	OR	ON	2011/06/15 12:58
L12	33	electroluminescent and (naphthalene same diimide)	USPAT; UPAD	OR	ON	2011/06/15 12:59
L31	29	electroluminescent and ((light with emi\$10) same (connect\$5 or link\$5 or spacer) same (charge or electron or hole) same alkyl\$5)	USPAT; UPAD	OR	ON	2011/06/15 13:01
L27	26	electroluminescent and (host same guest same spac\$5)	USPAT; UPAD	OR	ON	2011/06/15 13:01
L28	26	electroluminescent and (host same guest same spac\$10)	USPAT; UPAD	OR	ON	2011/06/15 13:01
L9	20	naphthal diimide	USPAT; UPAD	OR	ON	2011/06/15 12:59
L38	19	((@pd<"20031222" @ad<"20031224") and (428/690 428/917 428/411.1 428/336 313/502 313/503 313/504 313/505 313/506 313/507 313/508 313/509 257/40 257/88 257/104 257/ E51 532/1).ocls. and ((oxadiazol \$) with derivative\$2) same (charge electron hole light) and electrolumine\$ and (link\$ same anthracen\$4)	USPAT; UPAD	OR	ON	2011/06/15 13:02

L39	19	((pd<"20031222" @ad<"20031224") and (428/690 428/917 428/411.1 428/336 313/502 313/503 313/504 313/505 313/506 313/507 313/508 313/509 257/40 257/88 257/104 257/ E51 532/1).ccls. and ((oxadiazol \$) with derivative\$2) same (charge electron hole light) and electrolumine\$ and (link\$ same anthracen\$2)	USPAT; UPAD	OR	ON	2011/06/15 13:02
L18	17	(428/690 428/917 313/504 313/506 257/40 "E51/049" "E51/05").ccls. and ((light with (emit\$5 or emiss\$5)) or fluores \$5 or lumines\$5 or electrolumines\$5) same (link\$5 or bond\$5 or connect\$5) same ((charge or hole or electron) with (transport\$5 or inject\$5) same alkylene)	USPAT; UPAD	OR	ON	2011/06/15 13:00
L20	16	electroluminescent and (polymer same alky\$5 same spac\$5 same link\$5)	USPAT; UPAD	OR	ON	2011/06/15 13:00
L26	15	electroluminescent and (host same guest same link\$5)	USPAT; UPAD	OR	ON	2011/06/15 13:01
L6	12	("electron-transport" or "electron transport" or "electron- transporting" or "electron transporting") same diimide and electroluminescent	USPAT; UPAD	OR	ON	2011/06/15 12:58
L29	12	electroluminescent and (host same guest same spac\$10 same (light or flourescent))	USPAT; UPAD	OR	ON	2011/06/15 13:01
L22	11	electroluminescent and polymer and (alkyl\$5 same spacer same charge)	USPAT; UPAD	OR	ON	2011/06/15 13:00
L24	7	electroluminescent and (polymer same alky\$5 same spac\$5 same link\$5) and (257/40 E51/049 E51/05 313/502 313/503 313/504 313/505 313/506 313/507 313/508 313/509 313/510 313/512 313/513 428/690 428/917).ccls.	USPAT; UPAD	OR	ON	2011/06/15 13:00
L10	6	naphthalenediimide	USPAT; UPAD	OR	ON	2011/06/15 12:59
L25	4	electroluminescent and polymer and (spacer same alky\$5 same ((charge or electron or hole) with (inject\$5 or transport\$5)))	USPAT; UPAD	OR	ON	2011/06/15 13:00



L23	3	electroluminescent and ((light with (emit\$5 or emiss\$5)) same ((charge or hole or electron) with (transport\$5 or inject\$5)) same spacer same link\$5)	USPAT; UPAD	OR	ON	2011/06/15 13:00
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**6/ 15/ 2011 1:04:29 PM****C:\ Documents and Settings\ jyang2\ Desktop\ Searches\ 10584313.wsp**